

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A method for preparing a composition of matter containing at least one rare earth element comprising:
providing a first composition which comprises nanoparticles comprising at least one rare earth element; and
reacting the first composition with a substance wherein the reaction creates a composition comprising at least one rare earth element that is different from the first composition.
2. (Original) The method of claim 1, wherein the composition of matter is an inorganic compound.
3. (Original) The method of claim 1, wherein the composition of matter is an organic compound.
4. (Original) The method of claim 1, wherein the at least one rare earth element is scandium (Sc).
5. (Original) The method of claim 1, wherein the at least one rare earth element is yttrium (Y).
6. (Original) The method of claim 1, wherein the at least one rare earth element is lanthanum (La).
7. (Original) The method of claim 1, wherein the at least one rare earth element is cerium (Ce).

8. (Original) The method of claim 1, wherein the at least one rare earth element is praseodymium (Pr).

9. (Original) The method of claim 1, wherein the at least one rare earth element is selected from neodymium (Nd), samarium (Sm), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), and lutetium (Lu).

10. (Original) The method of claim 1, wherein the at least one rare earth element is europium (Eu).

11. (Original) The method of claim 1, wherein the composition of matter comprises nanoparticles.

12. (Currently Amended) A product comprising the composition of matter of claim 21 ~~4~~.

13. (Original) The method of claim 1, wherein the composition of matter comprises a dispersion.

14. (Original) The method of claim 1, wherein the surface area of nanoparticles is greater than 25 m²/gm.

15. (Original) The method of claim 1, wherein the composition of matter comprises submicron particles.

16. (Original) The method of claim 1, wherein the composition of matter comprises at least one precursor.

17. (Original) The method of claim 1, wherein the first composition comprises at least one oxide.

18. (Original) The method of claim 1, wherein the first composition comprises at least one carbonate.

19. (Original) The method of claim 1, wherein the first composition comprises at least one nitrate.

20. (Original) The method of claim 1, wherein the first composition comprises at least one hydroxide.

21. (New) The method of claim 1, wherein the second composition different from the first composition comprises nanoparticles.

22. (New) The product of claim 12, wherein the product is selected from the group consisting of a pigment, a polishing agent, a coating, an electroceramic, a catalyst, an optic, a phosphor, and a detector.